

# Parkdale Fish Facility

## Operation and Maintenance

Annual Report 2002 - 2003

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# THE CONFEDERATED TRIBES OF THE WARM SPRINGS RESERVATION OF OREGON

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## PARKDALE FISH FACILITY ANNUAL REPORT FOR 2003

Project #1988-053-07

Written by Jim Gidley

### FISH CULTURE

The 50W03- winter steelhead spawning is complete. Adult collection started January 22, 2003 and ended May 24, 2003. We live spawned 22 males and 22 females to create 37 family groups. Spawning started April 1, 2003 and the last of 8 spawns was May 27, 2003. The green egg estimate was 87,399, the actual inventory was 69,488. After a 15.8% shock loss there were 58,502 viable eyed eggs. All of the green eggs were water hardened in iodophore for one hour prior to being transferred to Oak Springs Hatchery. Most of the spawned females were released alive at the mouth of the Hood River. All contributing males were released alive at the forbay.

The 50W03- summer steelhead spawning is complete. Adult collection started April 9, 2002 and ended February 28, 2003. We live spawned 15 females and 19 males to create 31 family groups. Spawning started on March 3, 2003 and the last of 9 spawns was May 5, 2003. The green egg estimate was 61,828, the actual inventory was 59,931. After a 14.5% shock loss there were 51,218 viable eyed eggs. All of the green eggs were water hardened in iodophore for one hour prior to being transferred to Oak Springs Hatchery. All of the spawned 50W03 summer females were released alive at the mouth of the Hood River; program surplus unspawned summer females were released into the upper Hood River West Fork. All spawned and unspawned 50W03 summer males were released into the upper West Fork as well.

Because the 2003 Hood River spring Chinook adult return estimates were low, we did not be collect any Chinook brood this year.

On March 3, 2003 approximately 30,720 of the 50-01 Chinook smolts were received from Round Butte Fish Hatchery. These fish averaged 12.8 f/lb. These smolts were 100% CWT-ADRV. The fish appeared to be in fine health and mortality was extremely low. The screens were pulled 4/4/03 for a volitional release.

Approximately 13,499 of the 50W02-winter steelhead were received from Oak Springs Hatchery at 6.45 f/lb. on 4/3/03. The screens will be pulled 4/10/03 for a volitional release. The second group of 13,188 was received 4.9 f/lb. on 4/22/03. The screens will be pulled 4/29/03 for a volitional release.

Seven of the 50W03 winter female kelts were transferred to Farmers Irrigation District and used for screen tests.

Approximately 2,000 of the 50W02 winter steelhead smolts were used for a screen test at Farmer's Irrigation District.

### FISH PATHOLOGY

Several different treatments were tried to help minimize mortality in the 50W03 summer and winter steelhead brood. Formalin treatments @ 1/7,000 for 1 hour three times per week, hydrogen peroxide flow

through as well as closed treatments at 1/3,500 for 1 hour three times per week offered seemingly marginal help.

There were 14 mortality in the 50W03- winter steelhead, 8 males and 6 females.

There were 27 mortality in the 50W03-summer steelhead, 10 males and 17 females.

The snouts that were collected from 50-02 spring Chinook brood were transferred ODFW.

The 50W04-summer steelhead brood are receiving a prophylactic injection of florfenicol for any bacterial pathogens and formalin treatments three times per week at 1/7,000 for one hour.

Because of concerns over high levels of IHN in our 50W03 summer and winter steelhead brood no carcass distribution occurred in the Hood River system this year.

### **MAINTENANCE**

Approximately 5:45 a.m. November 11<sup>th</sup> well #2 (artesian) was rendered unserviceable. Through a process of elimination it was determined that the submersible pump motor was defective. Since well #2 normally services both residences, well # 1 was activated and supplied domestic water to the entire facility.

M-K Drilling installed a new Grundfos 3 phase/460-v, 2-h.p. submersible pump for well #2. This new pump replaces the original which was rendered unserviceable in November. The new Grundfos comes complete with a five year performance plus warranty.

Equipment Technology & Design Inc. Chief Engineer John Russell was here to repair some dysfunctional alarm points on the Scada Alarm System.

Jon Russell replaced installed a damaged temperature sensor for acclimation pond #2.

The John Deere 5310 tractor, Kawasaki Mule and the 2001 Ford F-150 were serviced and had the oil and filter changed.

The pressure washer, portable generator, 2" trash pump and walk behind lawn mower were serviced, and the anti-freeze was changed in the John Deere 5300 tractor. All of the high speed drill bits have been sharpened.

The back-pack blower saw considerable action blowing down the entire facility after November's big wind storm.

Blow down trees have been removed from the Rogers Creek intake pool.

Several trees were blown down during one of the recent windstorms, fortunately buildings; fences and equipment escaped damage.

A welding table complete with casters, fire brick surface, expanded steel shelf and implement holders was fabricated, and will be used during fabricating projects.

Pacific Detroit Diesel-Allison completed the annual preventative maintenance and two-hour load bank on the 200-KW emergency generator. Fluids samples were taken for analysis.

A replacement time delay engine start module has been ordered and two replacement group 31 batteries were installed for the emergency generator.

The 200-KW emergency generator was initiated because of a power outage for an hour.

A new block heater and thermostat were installed on the 200-KW emergency generator.

We tested the septic system gray water pumps, and everything is operating properly.

The flat bed trailer was repainted and a damaged wire to the taillight was repaired.

Damaged fish crowders were repaired.

We fabricated an aluminum tub stand which is being used during spawning.

The facility sign at the main entrance has been removed and was repaired and refurbished.

The removable fish jump screen was installed at the out flow; this will prevent adult salmonid access above our Rogers barrier.

Height Glass in Hood River repaired two window screens and a broken facility window.

All of the equipment that was used in the fish salvage had been disinfected, dried and stored.

All of the facilities bollards have been painted bright yellow. The storage shed and pump house were primed and painted.

Bark dust has been spread in all of the residential flowerbeds.

Oregon Equipment from The Dalles serviced the facility heat pump. The unit was low on freon.

Oregon Equipment repaired a damaged thermostat in the garage and re-wired a heater fan.

Oregon Equipment Inc. serviced a defective heat pump and freezer compressor. An overload switch and start capacitor were installed on compressor #1 and compressor #2 received a new contactor unit.

The gutters for both residences and the service buildings were cleaned.

Protective Powder Coating, Inc. in Yakima powder coated eight of our adult perforated pond screen dividers. This process has eliminated any rough or abrasive area.

The 2001 Ford F-150 was in the Ford dealership for a factory safety recall seat belt item. Both Ford F-150's recently received a lube and oil change.

The Dodge pick-up had an oil change and was serviced.

New tires were installed on the 1998 Dodge 2500 Ram. New snow-rims were purchased and mounted on the studded snow tires for the 02 Ford F-150.

The Dodge pick-up was fitted with a removable Western 7.5' poly pro plow and ultra mount system.

The front calipers and rotors were replaced on the Dodge pick-up.

Acclimation pond #2 was pressure washed. Fish screens, dam boards and old Christmas trees were put in the acclimation pond.

The John Deere lawn mower and walk behind snow blower received a routine oil change and preventative maintenance check.

Facility grounds maintenance includes mowing, fertilizing, irrigating, weeding, herbicide application and bark dust distribution.

The wooden decks at both facility residences have been pressure washed and received an application of water seal.

Defective mini blinds were removed and replaced in the Squiempfen residence.

Discussions with Middle Fork Irrigation District and Hood River County about installing liners in the two 30' Rogers Creek supply culverts were encouraging.

The pole barn and lean-to have both been reorganized. Attempts to eliminate the pack rat problems have been somewhat successful.

We received 210' of 24" culvert renew with thread-loc. from K&S Supply, Inc. These new liners will be installed inside of the two existing Rogers Creek supply culverts. This is a cooperative cost share project with MFID and Hood River County.

Our Hood River Middle Fork supply was shut off for two weeks while MFID did maintenance on Powerhouse #3.

An angle iron grip strut stair system has been built for the west end of the Rogers Creek Bridge.

The portable lib-tank was fitted with a pressure gauge and a regulator.

All of the facility equipment continues to be serviced and maintained as manufactures recommendations.

Two micro-bubble ceramic oxygen diffusers were installed in the portable liberation tank.

Equipment and materials were ordered and received for building a formalin injection system for the adult brood ponds.

Facility winterizing is complete. Irrigation supply lines have been drained, chimneys cleaned, and snow markers installed. The new 7.5' poly-pro Western snowplow has been installed on the Dodge Pick-up. The snow blower has been serviced and installed on the John Deere 5300 tractor. All three of the GSA vehicles stationed here have had snow rims and studded tires installed. The walk behind snow blower has been serviced. Frost covers have been installed on all outside hose bibs. Shop gas cans have had a stabilizer added.

A new John Deere riding lawn mower was purchased.

A micro head watering system was installed on most of the facility's plantings.

A water line was extended to the yard of residence #2 to allow for easier lawn watering. This involved trenching and installing @400 feet of PVC pipe with risers and drains.

The bare ground in front of the Squiemphen residence was re-seeded.

We fabricated a ½ screen to be used in the adult ponds during spawning and sorting of the adult brood.

### **MISCELLANEOUS**

The yearly acclimation meeting was held at the Parkdale Fish Facility. The post acclimation meeting was also held at Parkdale, with the entire Hood staff present.

Gehling, Squiemphen and Gidley were present at the Parkdale Fish Facility safety meeting.

Gidley attended a meeting in The Dalles regarding the Chinook run for 2003.

Gehling toured the facility with an Ameri-corp crew.

Albert Santos, Tribal Trainee at Oak Springs Hatchery helped spawn the first two groups of 50W03-summer steelhead.

Student from the Mt. Hood Community College Fisheries Program toured the facility.

Hood River County and conducted a wild fire inventory exercise.

Middle Fork Irrigation District (MFID), Hood River Electric CO-OP and Sprint were here checking on under ground utility lines.

Parkdale's FY-04 budget was completed and submitted for review. The FY-03 budget accruals have been summarized as requested by BPA.

Squiemphen and Gidley attended several program review meetings, presented by Cramer and Associates in The Dalles.

Andrew Rust, our internship student from Hood River Valley High School (HRVHS), has completed his objectives and internship activities at Parkdale Fish Facility for the duration of the school year. We were presented with a Certificate of Appreciation for our involvement in this mentorship program from HRVHS.

Hood River Valley High School student intern Andy Rust and instructor John Vann were here to review Andy's accomplishments.

Gidley met with MFID and Hood River County (HRC) personnel to discuss replacing the Rogers Creek supply line culverts.

The new Dell computer has been set up. Gorge Networks from Hood River has hooked up the Facility with high speed DSL internet connections.

Facility operational procedures were reviewed and equipment checked anticipating the forecasted Big Chill.

Considerable time was spent on the phone with ODFW Information System Specialist Rob McGlohon getting our Static IP Address functional.

A brood distribution summary for the 50W02 and 50W03 summer and winter steelhead completed as requested for Eric Olsen.

We received the new egg sorter.

Numerous hours were spent investigating the logistics of sitting a new residence on adjoining property, including: speaking with and visiting representatives from various manufactured home dealers; arranging cultural resources survey; meeting with utilities providers to learn connection routes; investigating funding, budgetary, and contracting issues.

A significant amount of time has been spent on the statement of work; specifications and the Bid Packet associated with acquiring and placement of the additional manufactured home. The completed Bid Packet has been forwarded to Purchasing and Contracts Manager Libby Chase for review.

Purchasing/Contract Manager Libby Chase and I held a pre-bid conference dealing with the Parkdale Fish Facility manufactured home purchase, site excavation and placement. Representatives from Columbia Homes of The Dalles were the only dealers present. Unfortunately the bid Columbia Homes submitted was over budget.

Ongoing negotiations with Columbia Homes have proven favorable. By modifying the scope of work, the bid estimate for the manufactured home and site excavation are within the projected budget amount.

Cultural Resources did a ground survey in the area of the proposed well drilling and new residence. Their report said no cultural resources were found, but they will have personnel on site during ground disturbing activities.

CTWSRO archaeologist Marilee Wernz & cultural resource technician Alberto Jimenez have been here on several occasions to monitor any ground disturbance associated with well drilling activities. Nothing of any significance has been observed.

Representatives from T & N and M K Well Drilling were here dowsing the newly acquired Zeman property for potential locations for facility expansion production wells.

M-K Drilling was awarded the bid for drilling facility production test wells. Drilling was scheduled to start October 1, 2003. This activity has been coordinated with Cultural Resources.

M-K Drilling Co. has been here most of this month. They have completed two wells with 8' casing and one well with 6' casing. Our domestic well behind the shop, two neighboring wells and the new 6' wells are being monitored for draw down during the eight-hour pump test. M-K Drilling will furnish a report of the well logs and the pump test flow rates. The temperature of well #1 was recorded at 45 degrees.